

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 62281313
PUBLICATION DATE : 07-12-87

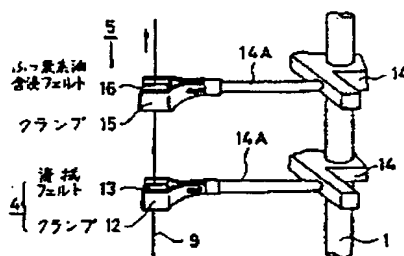
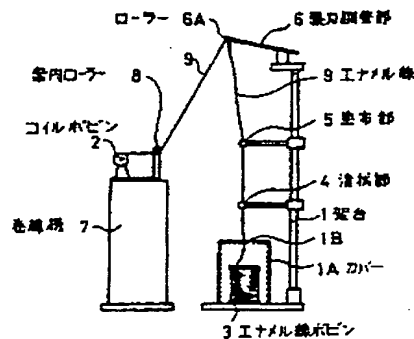
APPLICATION DATE : 29-05-86
APPLICATION NUMBER : 61124580

APPLICANT : FUJI ELECTRIC CO LTD;

INVENTOR : KAWADA NORISUKE;

INT.CL. : H01F 41/06

TITLE : MANUFACTURE OF SMALL-SIZED
PRECISE COIL



ABSTRACT : PURPOSE: To obtain excellent lubrication at the time of winding process and functions based on excellent thermal stability which prevent the corrosion of a copper wire and the failure of an electric contact, by spreading a fluorine system oil on the surface of a fine enamel wire cleared of adhesion matters and, at the same time, performing the winding process of a small-sized precise coil.

CONSTITUTION: Two sheets of felt 16 impregnated with a fluorine system oil are pinched at a spreading part 5. An enamel wire 9 drawn out from an enamel wire bobbin 3 is passed between a pair of wiping felts 13. Thereby a paraffin system mineral oil spread in the manufacturing process of the enamel wire 9 is wiped off. By passing between a pair of felts 16 impregnated with fluorine system oil, the surface of the enamel wire 9 can be covered with an extremely thin lubricating oil film. Consequently, the friction resistance of rollers 6A and 8 and a coil bobbin 2 in the winding process is reduced, so that the disconnection of the fine enamel wire 9 in the winding process, the increase of an electric resistance due to expansion of the enamel wire, the generation of kink due to tangle of the enamel wire, etc. can be prevented.

COPYRIGHT: (C)1987,JPO&Japio